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BULLETIN

REGISTER 1914-1915 ANNOUNCEMENT 1915-1916

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COLLEGE OF DENTISTRY

MEMPHIS, TENNESSEE

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Dentistry
1914-15

DENTAL BUILDING

UNIVERSITY OF TENNESSEE

ANNOUNCEMENT

COLLEGE OF DENTISTRY

MEMPHIS, TENNESSEE

THIRTY-EIGHTH SESSION, 1915-1916

WILL OPEN OCTOBER 4, 1915, AND
CLOSE JUNE 8, 1916

UNIVERSITY OF TENNESSEE BULLETIN VOL. VI. NO. 3

Published Quarterly by the University of Tennessee, at
MEMPHIS, TENNESSEE JULY, 1915

CALENDAR 1915

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SPECIAL CALENDAR

FOR 1915-16

Admission on credentials, September 21 to October 4, 1915.

Examination for advanced standing and removal of conditions, September 21 to October 4, 1915.

Formal opening College of Dentistry, October 4, 8:30 A.M.

Mid-term examinations begin January 19, 1916.

Second semester begins January 27, 1916.

Final examinations begin Monday, May 15, 1916.

Commencement, June 8, 1916.

Holidays:

Thanksgiving, November 25, 1915.
Christmas, December 21 to January 3, inclusive, 1916.

OFFICERS OF ADMINISTRATION AND INSTRUCTION

BROWN AYRES, *President.*
JOSEPH A. GARDNER, *Dean.*
DAVID M. CATTELL, *Registrar.*
EUGENE FREDERICK TURNER, *Bursar.*

FACULTY.

BROWN AYRES, PH.D., LL.D., D.C.L., *President of the University.*

JOSEPH ARCHIBALD GARDNER, D.D.S., *Dean and Professor of Crown and Bridge, and Superintendent of Prosthetic Clinic.*

JUSTIN DEWEY TOWNER, D.D.S., *Professor of Mouth Hygiene and Prophylaxis.*

DAVID MAHLON CATTELL, D.D.S., *Registrar, Professor of Dental Anatomy, Operative Dentistry, Exodontia, General Superintendent of Operative Clinic, and Instructor in Operative Technics.*

WILLIAM ETHELRED LUNDY, D.D.S., *Professor of Orthodontia.*

CLARENCE JACKSON WASHINGTON, B.S., D.D.S., *Professor of Dental Pathology and Therapeutics.*

ELBERT WOODSON TAYLOR, D.D.S., *Professor of Prosthetic Dentistry.*

————————, D.D.S., *Professor of Materia Medica and Therapeutics.*

LAWRENCE JEROME MCRAE, B.S., D.D.S., *Professor of Metallurgy.*

HARRY A. HOLDER, D.D.S., *Professor of Dental Histology and Embryology.*

RAYMOND MANOGUE, B.A., B.L., *Professor of Dental Jurisprudence.*

MAXIMILIAN GOLTMAN, AD EUNDEM, C.M., M.D., F.A.C.S., *Professor of Oral Surgery.*

EDWIN DIAL WATKINS, B.S., M.D., *Professor of General Surgery and Anesthesia.*

A. HERMSMEIER WITTENBORG, A.B., M.D., *Professor of Anatomy, Histology, and Embryology.*

HERBERT THOMAS BROOKS, A.B., M.D., *Professor of Pathology and Bacteriology.*

LUCIUS JUNIUS DESHA, PH.D., *Professor of Chemistry.*

W. E. NICELY, A.M., M.D., *Professor of Physiology.*

DAVID SAMUEL GARDNER, D.D.S., *Professor of Dental Pediatrics.*

ORREN WILLIAMS HYMAN, A.M., *Assistant Professor of Histology and Embryology.*

OPERATORY

LECTURERS, INSTRUCTORS AND ASSISTANTS.

JOSEPH LEMUEL MEWBORN, D.D.S., *Lecturer on Dental History.*

GEORGE GILLESPIE BUFORD, M.D., *Lecturer on Nerve Pathology in Relation to Mouth Disorders.*

RICHMOND MCKINNEY, A.M., M.D., *Lecturer on Nose and Throat Pathology in Relation to Dental Deformities.*

CLAUD E. HINES, D.D.S., *Lecturer on Dental Economics.*

HARRY BOYER WEISER, M.A., PH.D., *Instructor in Chemistry.*

SARAH C. YORK, L.I., M.D., *Instructor in Physiology.*

LAFAYETTE VON SCHMITTOU, PH.C., M.D., *Instructor in Pathology.*

ROBERT SNOWDEN, M.D., *Assistant in Bacteriology.*

J. S. MORGAN, M.D., *Assistant in Anatomy.*

JAMES FRANKLIN BIGGER, B.S., D.D.S., *Assistant in Anatomy.*

THOMAS JEFFERSON MEADOR, D.D.S., *Demonstrator in Operatory.*

ARCHIE JOHNSON BIGGER, D.D.S., *Demonstrator in Laboratory.*

THE COLLEGE OF DENTISTRY

HISTORY.

The University of Tennessee is the oldest institution of learning west of the Allegheny Mountains, established in 1794. Its Dental Department is the oldest dental school in the Southwest, established in 1878. A diploma, therefore, earned from this institution is of recognized value.

The success which has attended the Dental Department of the University of Tennessee goes to prove beyond question that the dental student acquires a training based upon large clinical facilities and an abundant and accurate demonstration of all dental teaching, together with a liberal opportunity to acquire a thorough medical as well as dental education.

The wonderful progress of the art and science of Dental Surgery and the full recognition of it by the American Medical Association as a specialty of medicine, as well as the universal desire of every reputable dentist to have it accepted as such, render it necessary to increase the facilities by which the dental student can obtain, not only a thorough knowledge of the profession of his choice, but also information of the fundamental branches which underlie all medical science.

By formal action of the Board of Trustees of the University of Tennessee, the work of the University in Medicine, Dentistry, and Pharmacy has been transferred from Nashville and Knoxville to Memphis, where it will be conducted by greatly strengthened departments.

The College of Dentistry is the result of the combination of the Dental Department of the University of Tennessee (heretofore conducted at Nashville), and the College of Dental Surgery, of Memphis. The equipments of the two dental schools were merged, giving to the college an unrivaled outfit for dental teaching.

This department, as all others of the University, is coeducational.

This College is a member of the National Association of Dental Faculties.

THE DENTAL BUILDING,

or Rogers Hall, is beautifully situated at the intersection of Union, Myrtle and Marshall Avenues, just west of Forrest Park. The freshman, junior, and senior laboratories are on the first floor, well lighted by east, south, and west exposure. The freshman and junior technic laboratories are ample in size, comfortable in arrangement, and well equipped. Each laboratory has an instructor's room adjoining for the preparation of models, casts, etc., and the storing of the technic pieces produced by the student. The senior laboratory for practical work is conveniently situated just at the foot of the stairway leading from the operatory. This laboratory is equipped with modern blowpipes, compressed air, casting machines (from the Taggart to the mud bucket), electric lathes, vulcanizers, hot water, etc. The impression room is adjoining and convenient. The ex-

tracting room is also on this floor. It is amply lighted and furnished with all necessary instruments and conveniences that can be suggested for use in minor surgery; aseptic white enameled steel cabinet for holding such equipment; sterilizers; the latest improved nitrous oxide and oxygen outfit for administration of gas.

The clinical operatory on the second floor, to the left of the main entrance, with its large windows, allowing the light to enter unobstructed from the south and west, is fitted up with all the modern improvements known to the dental college world. Leather upholstered Columbia chairs, with bracket operating tables attached, a Clark "reservoir" cuspidor, and a white enameled pressed steel instrument cabinet will be a part of the equipment for each chair. This room has high ceiling, and is airy, light and comfortable.

While Rogers Hall, the home of the Dental department, is situated just on the border of a great industrial section of the city, yet its actual location is on the beautiful Union Boulevard. Forrest Park, within a stone's throw, is an ideal, shady and restful place. Three blocks away is the East University campus, on which are situated the medical and pharmacy buildings and the Baptist Memorial Hospital.

On the third floor the Chemical and Histological laboratories are situated, also a large classroom. The fourth floor is devoted entirely to Anatomy. The Anatomical laboratory is one of the best equipped and best lighted known to the medical or dental world. The Anatomical Museum and Library are also on this floor.

MEMPHIS AS A COLLEGE SITE.

CLINICAL CENTER OF MISSISSIPPI BASIN.

Situated at the intersection of sixteen railways, and as a result of their enormous traffic and that of the great water highway northward and southward, Memphis has a more numerous floating population than any other city south of the Great Lakes. These traveling thousands daily within its gates represent practically every section of the United States, climatically as well as geographically. Hence, the numerous hospitals in this city are called upon to treat a very great variety of diseases and surgical conditions. *This is a distinct benefit to the student of medicine and dentistry.* It is the commercial center for three States, and the metropolis of its own.

RAPIDLY BECOMING A GREAT EDUCATIONAL CENTER.

Besides the three departments of the State University, the College of Medicine, the College of Dentistry, and the School of Pharmacy, it is the site of the West Tennessee Normal School, to which Memphis citizens generously donated $400,000. It has just built its second high school, one of the largest and best in the entire South. A number of high-grade preparatory schools are situated in and near the city.

Goodwyn Institute affords rare educational opportunities, and is a source of great inspiration to ambitious students. It has a magnificent library, especially equipped for scientific investigation and reference reading. In addition to this, it provides a course of lectures—two or more a week on popular, scientific and sociological subjects—given by some of the ablest men of the United States, all of which is absolutely free to the students of the University. Frequently these lecturers address students in the College Auditorium at the midweek hour provided in the schedule for special educational and Y. M. C. A. interests.

The Cossett Library, with its circulating feature, consisting of 40,000 volumes on miscellaneous subjects, is a source of culture and pleasure to students.

PARKS AND DRIVEWAYS.

The magnificent system of eight parks and twelve miles of driveway not only contribute to the beauty of the city and the health of its citizens, but supplies the means of recreation so essential to the health of the busy student. One of the most beautiful of these, Forrest Park, is less than one-half block from the college, and is, therefore, virtually a campus for the three departments of the University.

HEALTH.

As matters of special interest to prospective residents of the city may be mentioned an almost perfect sewerage system, the clean asphalt streets and the inexhaustible supply of pure artesian water. The city enjoys the distinction of having one of the lowest resident death rate in the entire country—only nine per thousand. At the same time, as a result of the great transportation facilities by rail and river, the excellent hospital advantages of Memphis attract a very large clinic for the instruction of students of medicine and dentistry. The population of the city is already 200,000 and is increasing more rapidly than any other Southern city.

CLIMATE.

The comparatively mild weather in the fall, winter and spring months renders this climate distinctly favorable to student life.

REQUIREMENTS FOR ADMISSION.

A candidate for admission into the freshman class, who has received a collegiate course, or who has passed the matriculation examination of a recognized college, or who has a diploma from a standard high school, or who has credentials showing a preliminary training equal to completion of a standard high school, may matriculate without examination.

Of all other candidates a preliminary examination is required. This examination is the equiavlent of the final examinations of the fourth year of high school work. It is held by an educator appointed for the purpose by the State Superintendent of Instruction. Every candidate for the freshman class must present credentials, such as are enumerated

above, from the examiner when application for matriculation is made. *All students having diplomas or other credentials must have the same O. K.'d by the said Deputy State Examiner.* Undergraduates from recognized medical colleges will be excused from lectures in such subjects as they have passing credentials.

Note.—In the act of matriculating, students agree to obey the rules of the College—those in the Annual Bulletin and those in the "Rule Book" or posted in the halls and rooms of the College—and abide by the penalties for their violation, at the discretion of the faculty. The plea of ignorance of a rule will not be accepted. Right is reserved to modify or add to the rules at any time.

LOCKERS.

Students are allowed to select lockers in the operatory and laboratories in the order in which they matriculate. Each student is expected to occupy the seat selected during the lectures he attends.

CANDIDATES FOR ADVANCED STANDING.

Candidates for advanced standing must present certificates from recognized schools, and are credited with work done which is satisfactory to the dean of the school and to the professor of the department concerned.

Graduates of recognized medical schools are credited with one year.

TIME LIMIT.

The regular session begins Monday, October 4, 1915.

Students must register within ten days after the opening to get credit for a full year's work. In case of sickness, an additional ten days' extension is made, provided a certificate from a regular physician properly attests that illness is the cause of the delay.

The course of study covers three years, of not less than thirty-two weeks each, not counting holidays or other vacations, each week including six days of teaching. A course of four years will be arranged, on request, for students who desire to spend four years in completing the curriculum, or who must spend part of their time in other employment.

The regular course is so arranged as to cover the entire time, and it is of the first importance that students should be in attendance on the opening day.

Senior students must have removed all freshman conditions previously established against them before the beginning of the first semester.

COURSE OF STUDY.

First Year Studies.—General Anatomy, Histology, Physiology, Chemistry, Dental Anatomy, Operative Technic, and Prosphetic Technic.

Second Year Studies.—The Technic of Operative Dentistry, Technic of Prosphetic Dentistry, Technic of Crown and Bridge, Technic of Orthodontia, Materia Medica, Pathology, Bacteriology, Anatomy (dissection),

Mouth Hygiene and Prophylaxis, Metallurgy, General Surgery, Dental Histology.

Third Year Studies.—Principles and Practice of Operative Dentistry, Principles and Practice of Prosthetic Dentistry, Principles and Practice of Crown and Bridge, Principles and Practice of Orthodontia, Clinical Dentistry, General and Oral Surgery, Mouth Hygiene and Prophylaxis, Anaesthesia, Dental Pathology and Therapeutics, Ethics, Economics, Jurisprudence.

EXAMINATIONS.

All intermediate and final examinations are conducted in writing.

Interim examinations may be held now and then through the session to determine the progress made.

Undergraduate students will be examined at the close of each session, and certificates showing standing in each branch will be issued. Those conditioned in this examination will be allowed a reexamination at or before the opening of the ensuing college term.

The examination of the seniors for the Degree of Doctor of Dental Surgery will be upon all the branches required in the senior year.

The passing grade in all examinations is 75 per cent.

REQUIREMENTS FOR GRADUATION.

The Degree of Doctor of Dental Surgery is conferred upon those candidates not less than twenty-one years of age, of good moral character, who have completed satisfactorily the required courses of study and have passed the examination thereon, and have completed all technical, practical and clinical requirements to the entire satisfaction of the Faculty.

No student will be recommended for a degree who has not been a member of this school during the whole of the last or senior year. The standing of students is based upon examinations, monthly reports of attendance, quizzes, clinical practice and good behavior.

No student will be recommended for a degree until all financial obligations to the College shall have been discharged.

CERTIFICATES OF HONOR.

With a view to encouraging students to individual effort in acquiting themselves creditably in their studies, and that they shall have tangible official evidence that they have thus satisfactorily pursued their studies, the Faculty will present to every graduate who attains an average of 95 per cent or over on his final examinations a certificate of honor.

Also, the names of those attaining an average between 90 and 95 per cent will be published in the Honor Roll.

FACULTY MEDAL.

A gold medal, known as the "Faculty Medal," will be awarded to the member of the graduating class who makes the highest general average in the year. Only students who have taken the whole three years in this institution are eligible for the Faculty Medal.

FEES.

Entrance upon study in this school is voluntary on the part of the student, and the school being ready to acquit itself of its obligation to prepare him in Dentistry, fees will not be refunded or transferred under any circumstances; but should sickness or other good cause occasion failure of the student to complete the session for which he has paid, he will be credited, in a succeeding session with that portion of the fee for which he has not received instruction.

GENERAL TUITION.

The annual fees of this College are in accordance with the regulations of the National Association of Dental Faculties.

For Freshmen Students.

Matriculation	$ 5 00	
Tuition	150 00	$155 00

For Junior Students.

Matriculation	$ 5 00	
Tuition	150 00	$155 00

For Senior Students.

Matriculation	$ 5 00	
Tuition	175 00	
Total		$180 00

In addition to the above there must be deposited with the bursar by every student a fee of five dollars ($5) to cover unnecessary destruction or loss of property. The unused portion of the deposit, if any, will be returned.

There will also be a deposit required by the Professor of Anatomy to insure the return of the box of bones loaned the student for examination and study.

The matriculation and tuition fees are due and payable to the Bursar on entrance. None is returnable.

Each student is required to pay at least $100 of his tuition on registration *and will not be enrolled in classes till this payment is made.* He is then required to pay the remainder of his tuition fee before the beginning of the second semester.

No postponement of payments or reductions of fees is made. No notes are accepted under any circumstances. If fees are not paid when due, students will be excluded from classes until their financial obligations are met and the work thus lost will count against the standing of the student. The officers of the College of Dentistry have no power to change these regulations.

COST OF INSTRUMENTS AND BOOKS.

The books and instruments essential in the several classes have been carefully determined to meet the students' needs without being excessive; and as long and careful observation has shown that their attainment of skill is very closely related to their instrument equipment, this school demands that each student must supply himself with the sets indicated by the proper authority. It should be remembered in this connection that the money expended for these brings not only the opportunities for progress, but they outlast the studenthood for years, and will pay for themselves many times in actual practice.

A list of instruments necessary for the courses of instruction will be handed the student on his entrance and he will be required to purchase the instruments before enrollment in class. All instruments not absolutely necessary for the course will be left off this list. All possible savings in expense to the student will be zealously sought by our Faculty.

The cost of these instruments will average $75 each year. Books average $25 each year.

Instruments required in the college course will all be necessary instruments for a regular dental practitioner's equipment, and will, therefore, be necessary to the student in his practice after graduation.

Lockers for safe-keeping of instruments will be furnished each student. All instruments must be kept clean and sterilized before being placed away in lockers.

All instruments on the required list must bear the brand of accredited manufacturers.

No student is allowed to act as agent of any book or dental supply house.

Matriculation, tuition and contingent fees are paid in the Bursar's office, Lindsley Hall, 879 Madison Avenue (East Campus).

The Anatomical deposit is paid in the Anatomical laboratory.

GENERAL INFORMATION.

Students on arriving in Memphis, provided they have not already made arrangements for board, should leave their baggage at the station and go immediately to the college. Obtain from the Registrar information as to desirable boarding places. Good board can be obtained in the vicinty of the college at from three and one-half ($3.50) dollars a week up, according to the facilities offered.

Take any car to Main and Madison. When paying car fare ask for transfer ticket to the Peabody Avenue car. Get off at corner of Marshall and Union, go to Rogers Hall, 718 Union Avenue.

For special announcement of the College of Dentistry or further information address

University of Tennessee, College of Dentistry,
718 Union Avenue, Memphis, Tenn.

A VIEW OF THE CLINIC

ANOTHER VIEW OF THE CLINIC

CROWN AND BRIDGE WORK.

Professor J. A. Gardner.

Doctor A. J. Bigger, Assistant.

The instruction in this department is designed to impart a knowledge of all that pertains to crown and bridge work. A complete course of didactic instruction, supplemented by casts, drawings and stereopticon views, is given to the classes.

A thorough course in the technic of crown and bridge work is given the junior class, and this includes the full technical demonstration of cast crowns and bridges. Both junior and senior classes have an abundance of practical experience in the clinic.

Textbook: Goslee. Reference: Evans, Hovestadt.

Juniors.—Lectures 30 hrs; Technic Laboratory 94 hrs; Clinic 70 hrs. ..... 184 hrs.

Seniors.—Lectures 30 hrs; Clinic 200 hrs..... 230 hrs.

MOUTH HYGIENE AND PROPHYLAXIS.

Professor Towner.

This course deals with the prevention of disease of those parts immediately connected with the oral cavity.

In certain cases the health of one organ is so dependent upon the manner in which all other organs of the body perform their functions, that a course of general hygiene with special reference to its influence upon the oral cavity will be given.

Theories of proven value will have their practical application in order that the student may have fixed in mind definite procedures best suited to the accomplishment of desired results.

The surgical technique of prophylaxis will be made of special importance.

Lectures 32 hrs; Demonstration 64 hrs..... 96 hrs.

OPERATIVE DENTISTRY, INCLUDING DENTAL ANATOMY AND OPERATIVE TECHNIC.

Professor Cattell.

Doctor Meador, Assistant.

The study of operative procedure begins in the Freshman year, under "Operative Technics," and is carried on through the succeeding years.

The technic course consists of lectures, recitations, demonstrations and manual exercises, leading to "finger craft," an experience so necessary in after practice.

The following is a syllabus of the course:

1. Nomenclature.—A study of the more important names and words used in dentistry.

2. Dental Anatomy.—A study of tooth forms, with the aid of charts, models, etc.; carving tooth forms in ivory from models selected; free-hand drawings of tooth surfaces; also a study of pulp chambers and canals, dissecting extracted teeth, following the canal from chamber to apex.

3. Instrumentology.—A study of instruments, their nomenclature, classification, formulae and uses; making instruments from blank forms, tempering, sharpening, arrangement for convenience, care.

4. Cavity Forming.—Classification, preparation of specific forms in ivory blocks. These typical cavities are made in definite sizes, according to certain measurements.

5. Filling Materials.—Classification, preparation, manipulation.

6. Pathology and Therapeutics.—Exposed dentine, exposed pulp, putrescent pulp, alveolar abscess.

7. Pulp chambers and canals are cleansed and filled in extracted teeth. Afterward the roots are dissected to ascertain the perfectness of the operation.

With the aid of "dummy patients" and extracted teeth, the actual treatments are made by students of the class.

The training received in this course familiarizes the student with teeth, their forms and peculiarities. He has had sufficient manual training, coupled with habits of order and systematic procedures, to enable him to enter the clinical department by the middle of the Junior term, and there undertake on the "live patient" the operative procedure so patiently performed on dummies in the technic laboratories.

At the beginning of the Junior course a review is given in pathology, therapeutics, instrumentology, cavity classification and instrumentation, instrument grasps, rests and control of force. The "Typodont" is utilized in the preparation of ideal cavities, and these are filled with the different filling materials. Cast inlay fillings are demonstrated, and the student performs his allotted task in these as well as the welded and plastic fillings.

In the Operative Clinic all procedures taught from the chair of Operative Dentistry will be demonstrated, and the didactic instruction will be rigorously followed in the practical operations. Indeed, the formation of cavities and all operative procedures entered into in the technic courses are in line with the teachings from the chair of Operative Dentistry.

"Operative Dentistry" covers all three years. Graded. First for the Freshman, then the Junior, and finally the Senior. Each succeeding year reviews the work of the previous one, and then takes a step in advance in logical sequence.

The practical or clinical course in operative procedures will be pursued in the "Operatory," a large room well lighted.

This room will be fitted up with all the most modern conveniences known in college equipment.

Columbia chairs, bracket and operating table attached. A Clark cuspidor for each chair. Also a pressed steel white enameled aseptic instrument cabinet will be a part of the equipment of each chair.

Like the practitioner in daily life who spends the greater time and energy with the work at the chair, so in senior student life, the greater portion of time will be spent in this beautifully fitted up "operatory."

First-year students are expected to perform minor operations in the clinics the latter end of the term. Second-year students may go to the operatory after the mid-term examinations.

Textbook: Black. Reference: Johnson, Marshall, Kirk, Davis.

A great number of extracted teeth are required in the Technic Department. All students should bring as many of these with them as possible.

EXODONTIA.

Extraction is made a part of the operative course and covers a series of ten lectures, supplemented by demonstration and clinical practice.

General anaesthesia and local anaesthesia by hypodermic injection, induction and zonatherapy, are all taught in their proper places.

The opportunity for clinical experience by the student is great.

Textbook: Winters.

Hours in the Course.

Freshman.

Dental Anatomy—Carving, dissecting, and drawing, 6 hours per week, 16 weeks	96 hrs.
Instrument Technology—Cavity cutting and filling, 6 hours per week, 16 weeks	96 hrs.
	192 hrs.

Junior.

Review of Dental Anatomy and Instrumentology, 10 hours per week, 2 weeks	20 hrs.
Cavities and Fillings in Typodont, 10 hours per week, 8 weeks	80 hrs.
Treatment and fillings in root canals, 5 hours per week, 2 weeks	10 hrs.
Clinic	200 hrs.
	310 hrs.

Senior.

Lectures, Demonstrations and Quizzes, 2 hours per week, 30 weeks	60 hrs.
Exodontia Lectures and Demonstrations, 1 hour per week, 10 weeks	10 hrs.
Operative Clinic, 30 hours per week, 30 weeks	900 hrs.
	970 hrs.

THE DENTAL CLINIC.

There will be no lack of patients in this city, either for the common operations of every day practice or for surgical operations. Many of the surgical clinics of the several hospitals are open to our students. Often seniors perform twice the number of operations required. And the requirements are not small.

ORTHODONTIA.

PROFESSOR LUNDY.

In this department there will be shown the importance of perfectly occluded arches in producing facial symmetry and developing the bones of the face and cranium.

The importance of establishing occlusion at the time of eruption, the preservation of the contact point in order that the interproximal space be maintained—a factor in the prevention of decay of the teeth and disease of the gums.

Mal-occlusion as a diagnostic point in disease of the eye, ear, nose and throat.

The most approved ideas will be taught in regard to the principles of Dental Orthopedia.

Also, the best technical methods of producing appliances and apparatus for all forms of irregularities of the teeth.

Textbooks: Angle, Jackson, Lischer.

Lectures 32 hrs; Demonstrations 32 hrs.....64 hrs.

DENTAL PATHOLOGY AND THERAPEUTICS.

PROFESSOR WASHINGTON.

General pathological conditions and therapeutic measures will be carefully taught, furnishing a rational scientific basis for the recognition, prevention and management of many oral diseases, the treatment of which constitutes a large part of our professional service.

From data obtained from every available source in harmony with one another and with the principles which underlie general medical and surgical practice is evolved a system of special pathology and therapeutics which reflects the present advanced position of this branch of dental science.

Such diseases as are presented in the operatory will be diagnosed and treatment made clear.

Textbooks: Burchard, Black.

Lectures ..... 32 hrs.

PROSTHESIS.

PROFESSOR TAYLOR.

DOCTOR A. J. BIGGER, Assistant.

This department embraces a systematic graded course of theoretic and practical instruction, consisting of lectures, lantern views and laboratory work, and with practical experience in the clinic.

In the technic course freshmen students are taught, by means of lectures and demonstrations, the characteristics and uses of materials and appliances, methods employed in taking impressions of the mouth, making casts, models, dies and counterdies, swaging metal bases, the selection and arrangement of teeth, both on metal and vegetable bases,

packing, vulcanizing, finishing and polishing the different types of dentures.

Juniors are taught the minute detail, beginning with receiving and handling of patient, the preparation of the mouth, materials best suited for the conditions, how to make diagnosis of the different temperaments, select and arrange teeth accordingly; a thorough study of the muscles of mastication, force of bite, movement of lower jaw, etc. Technical work embraces constructing full metal and partial metal base dentures, with teeth attached by solder and by vulcanite, construction and application of clasps and other forms of anchorage.

Seniors are given a critical review and take up cast aluminum, celluloid and continuous gum dentures, making splints for retaining reduced fractures, making obturators, as well as applying all methods, in a practical way, for patients in the clinic. A "deposit" piece will be required.

Textbook: Prothero. Reference: Wilson, Turner.

Freshman.

Lectures 1 hour per week, 30 weeks	30 hrs.
Technic Laboratory, 3 hours per week, 30 weeks	90 hrs.
	120 hrs.

Junior.

Lectures, 1 hour per week, 30 weeks	30 hrs.
Technic Laboratory, 12 hours per week, 15 weeks	180 hrs.
Clinic	30 hrs.
	240 hrs.

Senior.

Lectures, 1 hour per week, 30 weeks	30 hrs.
Technic Laboratory, 5 hours per week, 15 weeks	75 hrs.
Clinic	100 hrs.
	205 hrs.

MATERIA MEDICA AND THERAPEUTICS.

PROFESSOR ————.

Deals with General Materia Medica and Therapeutics, special attention being paid to those drugs that apply directly to dentistry and the different methods of application.

In this course the student will be made familiar with special drugs and formulae, indications for their use, and a general survey of the dental apotheca.

The teacher in this branch will give two hours each week to the college clinic, giving instruction in practical application of medicinal substances in the treatment of pathological conditions presented therein.

Textbook: Buckley. Reference: Prinz.

Junior—Lectures 32 hrs; Demonstrations 32 hrs	64 hrs.
Senior.—Lectures 16 hrs; Demonstrations 64 hrs	80 hrs.

ORAL SURGERY.

PROFESSOR GOLTMAN.

This course consists of the surgical treatment of the facial defects and blemishes, the surgical treatment of alveolar abscesses, the treatment of caries and necrosis of bone, fractures of the jaw, including the various devices and methods of fixing and retaining fractured and displaced bones in position, cleft palate and harelip. The treatment of diseases of the antrum of Highmore, the diagnosis and removal of tumors occurring about the mouth and face, the exsection of nerves in the surgical treatment of persistent neuralgia, etc.

The whole clinical course is an exemplification of aseptic and antiseptic surgery in its adaptation to and uses in the various phases of the surgical treatment of both accidental and deliberate operative cases.

References: Blair, Marshall, Gilmer, Brown.

Lectures 32 hrs; Clinic (estimated) 16 hrs..... 48 hrs.

COURSE IN GENERAL SURGERY AND ANESTHESIA.

PROFESSOR WATKINS.

This course covers the fundamental principles of general surgery. The instruction is by lectures and clinical demonstration.

Deformities, injuries, inflammation, new growths and foreign bodies are in succession studied. The etiology, pathology, symptoms and signs of surgical diseases are discussed. Treatment is considered in detail. Special attention is devoted to the study of inflammation. Lectures are given on the recent views of immunity.

Anaesthesia is studied from a purely practical standpoint. Opportunity is afforded each student to witness the administration of chloroform and ether anaesthesia for major surgical operations.

Throughout the course emphasis is laid on the scientific foundation of surgical study and accuracy of observation.

The course in anaesthesia will be presented in lectures and practical experiments on animals.

The course will embrace all the agencies which prevent or obtund pain, both general and local.

It shall be the purpose of this course to thoroughly familiarize each student with all anesthetics and their respective antidotes, that they may be able to take care of all cases that shall come to them in private practice.

It is especially intended that this course of instruction shall embrace those conditions which the dentist is likely to meet in his practice, not omitting careful attention to the minor surgical operations.

Lectures 30 hrs in Surgery, 16 hrs. in Anesthesia..... 46 hrs.

DENTAL HISTOLOGY AND EMBRYOLOGY.

PROFESSOR HOLDER.

It is indispensable for the treatment of disease in the dental tissues that the dentist should possess an intimate knowledge of the microscopical structure of those tissues.

To this end a thorough course will be given showing the structure of the different tissues composing the teeth and surrounding parts and emphasizing the importance of correct operative procedure in the work at the chair in order that the function of each tissue may be preserved.

The course of lectures will be supplemented with stereopticon views and work in the Histological laboratory.

Textbook: Noyes.

This is a special course of one week..... 12 hrs.

CHEMISTRY.

Professor Desha.

Doctor Weiser.

This course is given in the laboratory and lecture room of the Department of Chemistry which, together with a supply room and the office of the instructor, are located on the third floor of Rogers Hall. The laboratory is fully provided with all the equipment necessary for carrying on the work. Individual lockers for eighty-four students are available and are stocked with the apparatus necessary for the personal use of each student. No special laboratory fee is charged, but each student is held responsible for the contents of his locker, and damaged or missing articles are charged against his breakage deposit at their net cost to the University.

The object of the course is to thoroughly ground the student in the understanding and application of the fundamental principles of chemical reasoning. To this end the lectures relate to the development of the principles of the science and are accompanied by demonstrations of the phenomena upon which the modern conceptions of chemical action are based. In the laboratory the students individually perform a series of experiments closely paralleling the lecture work and selected to more fully illustrate the subject matter of the latter. Introductory qualitative analysis is introduced toward the end of the course.

Textbooks: Smith, McPherson, and Smith & Hale.

General Inorganic Chemistry. Two lectures, four hours' laboratory and one recitation weekly throughout first year. Total, 224 hours.

ANATOMY.

Professor Wittenborg.

Mr. Hyman, Instructor in Histology and Embryology.

Doctor Morgan, Assistant.

Doctor J. F. Bigger, Assistant.

COURSES OF INSTRUCTION.

1. *Osteology, Athrology, Myology, Angiology.*—This course is given during the first semester of the first year, and consists of lectures, quizzes, and demonstrations.

Three hours per week, 16 weeks..... 48 hrs.

At the beginning of each year half a disarticulated skeleton is issued to each student for use outside of the class room. Frequent use is made of the always available anatomical specimens of the departmental museum adjoining the laboratory. Emphasis is laid upon the osteology of the skull.

2. *Organology and Neurology.*—The organs and nervous system are studied from specimens in the anatomical laboratory by groups of students during the second semester of the first year. Lectures, quizzes, and demonstrations accompany this work.

Three hrs. per week, 16 weeks ..... 48 hrs.

3. *Dissection.*—During the first semester of the second year the head, neck and thorax is dissected. Daily individual quizzes by assistants and demonstrations by prosectors are held, accompanied by conferences at frequent intervals.

Textbook: Gray.

Fifteen hrs. per week, 10 weeks ..... 150 hrs.

4. *General Histology.*—This course is a study of all the tissues of the body and of such organs as especially concern the dentist. Seventy-five per cent of the time is spent in the laboratory studying prepared slides. A record of the work is made by drawings in colored ink. The course is given in the second semester of the freshman year.

Txtbook: Bailey.

Lectures, 12 hrs.; Laboratory 36 hrs. ..... 48 hrs.

PHYSIOLOGY.

Professor Nicely.
Doctor York.

The entire second floor of Eve Hall is occupied by the Department of Physiology. It is well-lighted and well-ventilated and well-adapted to the teaching of this subject. The laboratory is adequately equipped with modern physiological apparatus for demonstration and investigation.

First Year.

Course I.—First semester. This course covers physiology of the blood, circulation, respiration, secretion, digestion and nutrition.

Course II.—Second semester. This course embraces physiology of muscle and nerve, the central nervous system, and the special senses. Throughout the course emphasis is given those subjects which especially concern the dentist.

Textbook: Ott.

Lectures 32 hrs.; Laboratory 64 hrs. ..... 96 hrs.

PATHOLOGY.

Professor Brooks.
Doctor Von Schmittou.

The course in pathology is divided into two parts: (a) General Pathology, (b) Special Pathology.

THE MAIN LOBBY

CORRIDOR LEADING TO OFFICE

In general pathology the subjects of inflammation, degenerations, hypertrophy, etc., are studied in detail. Special stress is laid on the microscopic appearance of these lesions. In special pathology the lesions that occur in special organs are studied. During this time the gross appearance of the organs in various diseases are shown to the students. The appearance of the lesions is thus more forcibly impressed. Both general and special pathology are given in the second semester of the junior year.

Lectures 16 hrs.; Laboratory 16 hrs..... 32 hrs.

BACTERIOLOGY.

Professor Brooks.

Doctor Snowden.

This course consists of laboratory work, explained by informal lectures and demonstrations. The students are thoroughly instructed in the preparation of the usual media and of such special media as apply to the needs of the course, the sterilization of media and apparatus and the principles of disinfection.

The *pathogenic* bacteria are studied in groups with such nonpathogenic forms as are necessary for comparison.

In suitable cases animal inoculation and autopsies are performed by the student, the technic being as far as possible the same as in regular hospital autopsies.

Specimens of pus and pathological exudates are presented for diagnosis and the class is required to isolate the organisms present and submit them in pure culture with a report of the work.

Lectures 16 hrs.; Laboratory 16 hrs..... 32 hrs.

DENTAL JURISPRUDENCE.

Professor Manogue.

1. Regulation of the Practice of Dentistry.
   - (a) Power to regulate.
   - (b) Requirements.
2. Relation to Patrons.
   - (a) Nature of relation.
   - (b) Degree of skill required.
3. Liability for Negligence or Malpractice.
   - (a) Acts of Omission Constituting Negligence or Malpractice.
   - (b) To whom liable.
   - (c) Actions for Negligence or Malpractice.
4. Compensation.
5. Outline of Law of Contracts and Negotiable Paper.

Textbook: Brothers, Noyes.

Lectures ..... 10 hrs.

METALLURGY.

PROFESSOT MCRAE.

This course is composed of: (a) A series of lectures on the general principles of chemistry which serves as a basis for the lectures of the second series. (b) A thorough course on the mining, the refining, the properties and the practical dental uses of all the metals used in the practice of dentistry. (c) Practical demonstrations are given in the laboratory of the properties and manipulations of all the metals that are to confront the dentist in his office and laboratory work in after life.

Textbook: Hodgen.

Lectures ..... 32 hrs.

ECONOMICS.

DOCTOR HINES.

As a greater number of students now enter dental schools without previous private preceptorship in a dental office or a knowledge of the business side of dental practice, a lecture course on dental economics seems necessary—embracing practice building, methods of obtaining and retaining patients, business relations between dentists and patients, fees for dental services, keeping books of accounts, methods of economy in the conduct of the office, and many points belonging under this head.

Lectures ..... 5 hrs.

Each Professor whose chair covers a practical branch will spend at least one period a week in the operatory demonstrating in the clinic according to his teaching at the chair.

DENTAL PEDIATRICS.

PROFESSOR D. S. GARDNER.

This subject will be taught by lectures, lantern views and demonstrations at the chair.

The science of Dental Pediatrics is that which treats of the proper care of the mouths of young children, with a view to preventing mouth diseases and ailments of the teeth; the science of controlling children in the dental office and the methods employed to interest the mothers in the care of the mouths of babies, beginning at the time of birth.

The chair of Dental Pediatrics is a new departure in Dental Pathology and Therapeutics and, so far, no textbook has been published. In lieu of a text, much literature can be found in the current literature at hand in the college library.

PROFESSIONAL ETHICS.

Taught from each chair as circumstances permit.

Consists of a brief statement of the more important principles of morals, followed by an exposition of the special duties and moral obligations of professional men to their patients, toward their fellow practi-

tioners, and toward the public, for upholding the honor and dignity of the profession. The more important differences between the profession and business or manufacturing pursuits will be explained with reference to the ethical standards that are right and appropriate in each.

Principal Guide Book: E. Noyes.

STUDENT ORGANIZATION.

The David Mahlon Dental Society is an organization of the student body, to which all students are eligible to membership.

The Society meets bi-monthly and at these meetings the members engage in lively but friendly discussions of timely topics pertaining to dentistry.

The great advantage to any man of the ability to speak clearly and forecfully cannot be doubted. To those who aim at leadership it is essential.

College entertainments are given through this society, to which friends of the college and society members are invited.

ALL WORKS OF TASTE

Must bear a price in proportion to the skill, taste and time, expense and risk attending their invention and manufacture. Those things called dear are, when justly estimated, the cheapest; they are attended with much less profit to the artist than those which everybody calls cheap. Beautiful forms and compositions are not made by chance, nor can they ever, in any material, be made at small expense. A competition for cheapness, and not for excellence of workmanship, is the most frequent and certain cause of the rapid decay and entire destruction of arts and manufactures.

CATALOGUE OF STUDENTS

SENIOR CLASS.

Bigger, Archie Johnson, Jr.....Finchburg, Ala.
Bigger, James Franklin.....Finchburg, Ala.
Busby, Lawrence Paul, Jr.....Memphis, Tenn.
Dickson, Southall, Jr.....Bolivar, Tenn.
Fields, Virgil Malcolm.....Milan, Tenn.
Gill, William Wilshire .....Judsonia, Ark.
Gosnell, Munsey Ward.....Blytheville, Ark.
Hudson, Adin W.....Middleton, Tenn.
Meador, Thomas Jefferson.....Red Boiling Springs, Tenn.
Neel, Henry Sidney.....Murfreesboro, Ark.
Woodard, William Edward.....Ringgold, La.
Whitehurst, Dennis Bogard* .....Paint Rock, N. C.

JUNIOR CLASS.

Francis, Walter Scott.....Tennessee.
Harper, Albert Turner.....Arkansas.
Ladd, Clifton .....Arkansas.
Mattice, Harold William .....Tennessee.
McClellan, Minnie Enyeart.....Arkansas.
Mielke, Anthony .....Tennessee.
Ogden, John Jones .....Tennessee.
Seamans, Beulah Rooker .....Tennessee.
Scharff, Earle Ullman .....Tennessee.
Tavel, Richard Bullington .....Tennessee.
Thomas, Fred William .....Arkansas.
Walton, Owen Kethlor .....Mississippi.
Wilkes, Clarence Ophir .....Tennessee.
Winfrey, Hugh William .....Tennessee.
Jackson, Joseph Brown .....Texas.

FRESHMAN CLASS.

Black, De Witt .....Arkansas.
Burns, Joseph Jefferson .....Mississippi.
Foster, Harry Clay .....Texas.
Gallimore, Charles Virne .....Tennessee.
Grover, Jay Lawrence .....Arkansas.
Houston, Hollis .....Arkansas.
Nash, Charles Hurley .....Tennessee.
Smith, Cecil Clarence .....Arkansas.
Street, Rufus Wright .....Mississippi.

*Failed to graduate.

GRADUATES, 1914.

Carter, William Preston ..... Pine Bluff, Ark.
Davis, Toy Broaddus ..... Rose Bud, Ark.
Dennis, Noah Lloyd ..... Newport, Tenn.
Dillard, Clarence Elmore ..... Simsboro, La.
Green, Albert Edward ..... Little Rock, Ark.
Ogden, Terrell Rhea ..... Ruston, La.
Pittman, Luther Hill ..... Memphis, Tenn.
Ruble, Vinet Allen ..... Jasper, Ark.
Terral, Bridges ..... Dodson, La.
Weaver, Orrin Klipart ..... Rara Avis, Miss.

GRADUATES, 1913.

Chesnut, James Arthur ..... Minneapolis, Minn.
Dickason, George Martin ..... Memphis, Tenn.
Fields, Eric Odell ..... Milan, Tenn.
Gallimore, Bonnie Clyde ..... McKenzie, Tenn.
Jopling, Porter Walker ..... Memphis, Tenn.
Martin, Elby Dexter ..... Clay, Ky.
Medinilla, Jose Eleodoro ..... Trinidad, Cuba.
Morris, Joseph Francis ..... Nashville, Tenn.
Price, Little Berry ..... Imboden, Ark.
Simpson, Elbert Fleming ..... Cameron, Miss.
Souby, Victor Bell ..... Del Rio, Tex.
Tucker, Lloyd Earl ..... Milan, Tenn.
Terrell, Sandford Jones Dean ..... Ranger, Tex.

GRADUATING CLASS, 1912.

Balthrop, Herbert Preston ..... Memphis, Tenn.
Davis, James Elbert ..... Jefferson City, Tenn.
Freeland, George Isaac ..... Springfield, Tenn.
Gordon, Joseph Ernest ..... LaFayette, Va.
Law, Baxter Wilson ..... Westmoreland, Tenn.
Maxey, Henry Clark ..... Anson, Tex.
Montsinger, Vernon William ..... High Point, N. C.
Odil, Guy Blackburn ..... Springhill, Tenn.
Pate, Clarence Madison ..... Pittsboro, Miss.
Roberts, William Thomas ..... Tracy City, Miss.

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